

INCH-POUND

MS28761C
 24 April 2007
 SUPERSEDING
 MS28761B
 6 April 2001

DETAIL SPECIFICATION SHEET

FITTING END, STRAIGHT, ATTACHABLE, HYDRAULIC, HIGH
 PRESSURE HOSE 3,000 PSI, FLARELESS TUBE

This specification is approved for use by all Departments and
 Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet
 and MIL-DTL-8789.

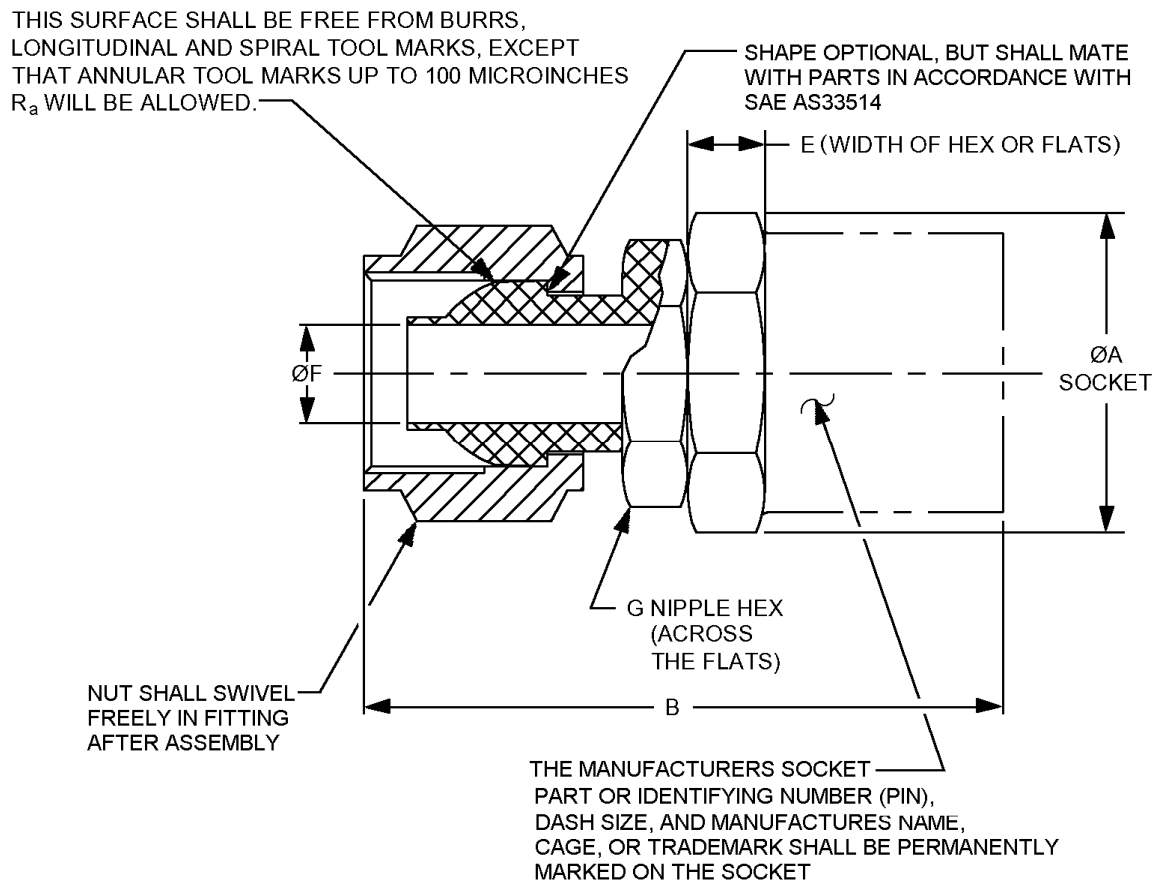


FIGURE 1. Fitting end, straight, flared tube dimensions and configuration.

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Size dash no.	Hose ID ref inch (mm)	Tubing OD inch (mm)	Nut	A max inch (mm)	B max inch (mm)
4	.219 (5.56)	.250 (6.35)	AS21921-4	.875 (22.23)	2.491 (63.27)
5	.281 (7.14)	.312 (7.92)	AS21921-5	.937 (23.80)	2.631 (66.83)
6	.344 (8.74)	.375 (9.53)	AS21921-6	1.160 (29.46)	3.000 (76.20)
8	.438 (11.13)	.500 (12.70)	AS21921-8	1.375 (34.93)	3.310 (84.07)
10	.563 (14.30)	.625 (15.88)	AS21921-10	1.550 (39.37)	3.564 (90.53)
12	.688 (17.48)	.750 (19.05)	AS21921-12	1.740 (44.20)	3.823 (97.10)
16	.875 (22.23)	1.000 (25.40)	AS21921-16	2.000 (50.80)	4.511 (114.58)

Size dash no.	E min inch (mm)	F min inch (mm)	G min (see note 5) inch (mm)
4	.188 (4.78)	.146 (3.71)	.563 (14.30)
5		.177 (4.50)	.625 (15.88)
6	.250 (6.35)	.271 (6.88)	.688 (17.48)
8		.365 (9.27)	.875 (22.23)
10	.312 (7.92)	.455 (11.56)	1.000 (25.40)
12	.375 (9.53)	.568 (14.43)	1.250 (31.75)
16		.800 (20.32)	1.500 (38.10)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are for given for information only.
3. Unless otherwise specified, tolerances are ± 0.005 inch (0.13 mm).
4. The fitting identification shall be marked in accordance with MIL-DTL-8789.
5. Hex or flats shall fit standard wrench openings.
6. Threads shall be in accordance with SAE-AS8879.

FIGURE 1. Fitting end, straight, flared tube dimensions and configuration - Continued.

REQUIREMENTS:

These fittings are for use with MIL-DTL-8788 hose.

See figure 1 for fitting end sizes and dimensions.

Material: Nipples and nuts shall be of steel and the socket shall be of aluminum in accordance with MIL-DTL-8789.

Finish:

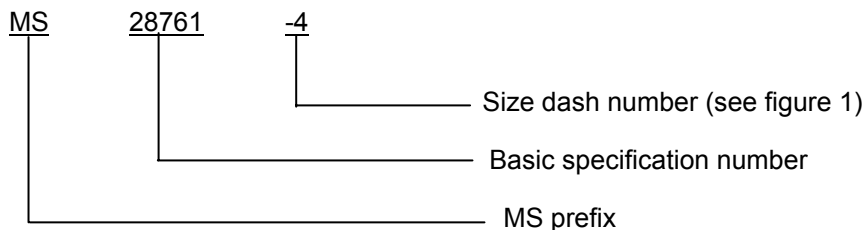
Aluminum alloy: Anodic treatment, in accordance with MIL-A-8625, type II.

Steel: Cadmium plate, in accordance with SAE-AMS-QQ-P-416, type II, class 3, color-black.

A non-standard swivel nut may be used provided the hex and thread dimensions are in accordance with SAE AS21921 and provided the nut cannot be removed from assembly.

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PIN example:



Example of a PIN: MS28761-4

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-8789, this document references the following:

- MIL-A-8625
- MIL-DTL-8788
- SAE AS21921
- SAE-AS8879
- SAE AS33514
- SAE-AMS-QQ-P-416

CONCLUDING MATERIAL

Custodians:

- Army - AT
- Navy - AS
- Air Force - 99
- DLA - CC

Preparing activity:

DLA - CC

(Project 4730-2005-031)

Review activities:

- Army - AV, MI
- Navy - CG, MC, SA, SH
- Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>